
North America's Leader in Hazardous Material Information Management
1905 Aston Avenue, Carlsbad, CA 92008
Phone (800) 451-8346 Fax (760) 602-8888

MSDS PRODUCT INFORMATION

Date: 10/07/2005
To: MSDS Requester
From: 3E Company
Subject: The MSDS you have requested

☐ MSDS NOT REQUIRED

In response to your request for a Material Safety Data Sheet, according to the OSHA Hazard Communication Standard (Right-to-Know), the following item is an article. Articles are defined in 29 CFR 1910.1200(c). Products such as Drugs, cosmetics, food, or alcoholic beverages, wood or wood products, and tobacco or tobacco products, as defined in 29 CFR 1910.1200(b)(6), are exempt from the Hazard Communication Standard. Items that are considered articles, as defined in 29 CFR 1910.1200(c), are also exempt from this Standard. Therefore, the manufacturer is not required to provide an MSDS for this product.

☐ MSDS DISCONTINUED PRODUCT

In response to your request for a Material Safety Data Sheet, the manufacturer has discontinued the product listed below. The MSDS Attached is the most current version, or an MSDS is no longer available.

☒ MSDS BEST COPY AVAILABLE

The MSDS attached is the best copy available from the manufacturer.

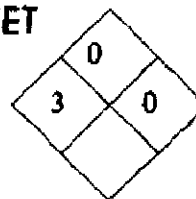
☐ MANUFACTURER NO LONGER IN BUSINESS

In response to your request for a Material Safety Data Sheet, a current MSDS could not be obtained for this product. It has been determined that the manufacturer listed below is no longer in business. A current address and phone number could not be located.

Manufacturer: Alpha Metals
Product Name: 53982 Lead Free Solder & Flux Kit



MATERIAL SAFETY DATA SHEET

alphametals.600 Route 440
Jersey City, New Jersey 07304
Telephone 201-434-6778

NUMBER 154

REVISION 04/22/95

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PRODUCT NAME (NUMBER) 53982 Lead Free Solder & Flux Kit

CHEMICAL FAMILY Two separate components (alloy and acid).
D.O.T. HAZARD CLASS Corrosive acid.

INGREDIENTS

CAS
NUMBERWEIGHT
PERCENTOSHA
PELACGIH
TLV

FLUX:

Zinc chloride fume	7646-86-7	20-45	1mg/cum	1mg/cum
Ammonium chloride fume	12125-02-9	5-15	NL	10mg/cum
Hydrochloric Acid	7647-01-0	3-8	7mg/cum	7mg/cum
SOLDER:				
Tin	7440-31-5	98	2.0 mg/cum	2.0 mg/cum
Silver	7440-22-4	2	0.01mg/cum	0.1 mg/cum

Sections III, IV, V(A), V(B),
VI, VII and IX pertain to the flux portion only of this product.

(PUBLISHED OR ESTIMATED VALUES)

BOILING POINT Deg F.	215	SPECIFIC GRAVITY	1.33
(760 mm Hg)		(H ₂ O=1) (@ 72 deg F)	
VAPOR PRESSURE	<3.5	% VOLATILE BY WEIGHT	<30
(mm Hg at 20 Deg. C.)		EVAPORATION RATE	<1
VAPOR DENSITY (AIR=1)	<1	(BUAC = 1)	
SOLUBILITY IN WATER	Appreciable	pH	<1
APPEARANCE AND ODOR	Off-beige liquid, caramel odor.		

SECTION IV: FIRE AND EXPLOSION HAZARD DATA

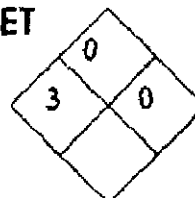
ESTIMATED FLAMMABLE LIMITS (% By Volume in Air)	LEL: NA	UEL: NA
FLASH POINT Deg F.	NA	
EXTINGUISHING MEDIA	Water fog, foam or carbon dioxide.	
SPECIAL FIRE FIGHTING PROCEDURES	None.	
UNUSUAL FIRE AND EXPLOSION HAZARD	May release toxic metal halide fumes. Use approved apparatus.	

NA - NOT APPLICABLE NE - NOT ESTABLISHED NL - NOT LISTED UN - UNKNOWN

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INHALATION: Irritant to respiratory system.

INGESTION: Chemical burn to digestive system.

SKIN: Not classified as a skin absorbent. Contact with skin may cause dermatitis, possible chemical burn.

EYES: Irritation to eyes. Can possibly burn eye surfaces.

LISTED CARCINOGENS: None.

See Section X for Solder alloy data.

INHALATION Remove to fresh air.

INGESTION Do not induce vomiting. Call a physician. If conscious, give milk or water to dilute.

SKIN CONTACT Wash thoroughly with soap and water. If a rash develops, call a physician.

EYE CONTACT Flush with water for at least 15 minutes. Get medical attention.

STABILITY			CONDITIONS	None.
STABLE:	X	UNSTABLE:	TO AVOID	

INCOMPATIBILITY None.
(Materials to Avoid)

HAZARDOUS	Hydrogen chloride, zinc oxide.
DECOMPOSITION PRODUCTS	

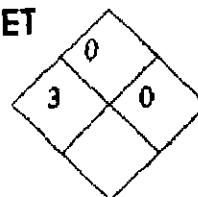
HAZARDOUS POLYMERIZATION WILL OCCUR: WILL NOT OCCUR: X CONDITIONS TO AVOID None.



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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Contain spill. Absorb, sweep-up dispose. Flush area with water to chemical sewer. Neutralize if necessary.

WASTE DISPOSAL

Must be in accordance with Federal, State and Local Laws and Regulations

- | | |
|-----------------------------|---|
| RESPIRATORY | Vent work station properly. Otherwise, use a NIOSH approved mask. |
| EYEWEAR | Chemical safety glasses. |
| CLOTHING/
GLOVES | Regular protection equipment normally used in a soldering operation. Acid resistant gloves. |
| VENTILATION | Maintain air flow away from user so that the TLV is never exceeded. |

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Wash hands thoroughly after handling. Store flux in closed containers at ambient conditions.

CONTAINS ACID - HANDLE WITH CARE.

Remove and wash contaminated clothing before re-use.

OTHER PRECAUTIONS:

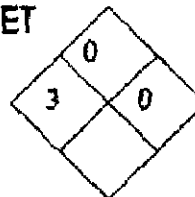
Containers: Since empty containers may retain product residues (vapor, liquid, or solid) all labeled hazard precautions must be observed. **FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN. DO NOT TAKE INTERNALLY.**



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NOTE:

OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AS REQUIRED FOR AN ACID MATERIAL.

HEALTH HAZARD DATA: (continued)

Overexposure to Tin: Dust or fume may cause irritation of the skin, mucous membranes, and may result in a benign pneumoconiosis (stannosis).

Overexposure to SILVER: May cause discoloration of eyes and skin, (argyria).

----- REGULATORY INFORMATION -----

Toxic Substance Control Act (TSCA) Status:

All ingredients of this product are listed on the TSCA inventory.

SARA TITLE III (Section 313):

Components present in this product at a level which could require reporting under the statute are:

Silver - Hydrochloric Acid

CHEMTREC

1-800-424-9300

DAY OR NIGHT